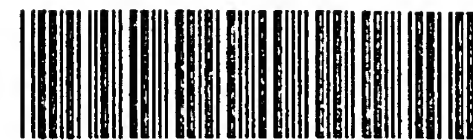


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/056,407B  
Source: 1FW/6  
Date Processed by STIC: 8/22/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:00

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

3 <110> APPLICANT: MEHEUS, LYDIE  
 4 LUHRMANN, REINHARD GEORGE  
 5 UNION, ANN  
 6 RAYMACKERS, JOSEPH  
 8 <120> TITLE OF INVENTION: METHYLATED, SMD HOMOLOGOUS PEPTIDES, REACTIVE WITH THE  
 ANTIBODIES  
 9 FROM SERA OF LIVING BEINGS AFFECTED WITH SYSTEMIC LUPUS  
 10 ERYTHEMATOSUS  
 12 <130> FILE REFERENCE: 11362.0011.DVUS01  
 14 <140> CURRENT APPLICATION NUMBER: US 10/056,407B  
 15 <141> CURRENT FILING DATE: 2002-01-24  
 17 <150> PRIOR APPLICATION NUMBER: US 09/297,981  
 18 <151> PRIOR FILING DATE: 1999-05-10  
 20 <150> PRIOR APPLICATION NUMBER: PCT/EP98/05518  
 21 <151> PRIOR FILING DATE: 1998-08-31  
 23 <150> PRIOR APPLICATION NUMBER: EP 97870127  
 24 <151> PRIOR FILING DATE: 1997-08-29  
 26 <160> NUMBER OF SEQ ID NOS: 32  
 28 <170> SOFTWARE: PatentIn version 3.3  
 30 <210> SEQ ID NO: 1  
 31 <211> LENGTH: 19  
 32 <212> TYPE: PRT  
 33 <213> ORGANISM: Artificial Sequence  
 35 <220> FEATURE:  
 36 <223> OTHER INFORMATION: Synthetic Peptide  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: MISC\_FEATURE /  
 41 <222> LOCATION: (2)..(18)  
 42 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 44 <400> SEQUENCE: 1  
 W--> 46 Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa  
 47 1 5 10 15  
 50 Gly Xaa Gly  
 54 <210> SEQ ID NO: 2  
 55 <211> LENGTH: 11  
 56 <212> TYPE: PRT  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Synthetic Peptide  
 63 <220> FEATURE:  
 64 <221> NAME/KEY: MISC\_FEATURE /  
 65 <222> LOCATION: (2)..(10)  
 66 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 68 <400> SEQUENCE: 2

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:00

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

```

W--> 70 Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
      71 1                5                10
      74 <210> SEQ ID NO: 3
      75 <211> LENGTH: 17
      76 <212> TYPE: PRT
      77 <213> ORGANISM: Artificial Sequence
      79 <220> FEATURE:
      80 <223> OTHER INFORMATION: Synthetic Peptide
      83 <220> FEATURE:
      84 <221> NAME/KEY: MISC_FEATURE
      85 <222> LOCATION: (7)..(15)
      86 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
      88 <400> SEQUENCE: 3
W--> 90 Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
      91 1                5                10                15
      94 Asn
      98 <210> SEQ ID NO: 4
      99 <211> LENGTH: 38
     100 <212> TYPE: PRT
     101 <213> ORGANISM: Artificial Sequence
     103 <220> FEATURE:
     104 <223> OTHER INFORMATION: Synthetic Peptide
     107 <220> FEATURE:
     108 <221> NAME/KEY: MISC_FEATURE
     109 <222> LOCATION: (17)..(33)
     110 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
     112 <400> SEQUENCE: 4
     114 Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly
     115 1                5                10                15
W--> 118 Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly
      119                20                25                30
     122 Xaa Gly Gly Pro Arg Arg
     123                35
     126 <210> SEQ ID NO: 5
     127 <211> LENGTH: 16
     128 <212> TYPE: PRT
     129 <213> ORGANISM: Artificial Sequence
     131 <220> FEATURE:
     132 <223> OTHER INFORMATION: Synthetic Peptide
     135 <220> FEATURE:
     136 <221> NAME/KEY: MISC_FEATURE
     137 <222> LOCATION: (5)..(13)
     138 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
     140 <400> SEQUENCE: 5
W--> 142 Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Gly Gly
      143 1                5                10                15
     146 <210> SEQ ID NO: 6
     147 <211> LENGTH: 15
     148 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:00

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

```

149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Synthetic Peptide
155 <220> FEATURE:
156 <221> NAME/KEY: MISC_FEATURE
157 <222> LOCATION: (3)..(13)
158 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
160 <400> SEQUENCE: 6
W--> 162 Gly Gly Xaa Gly Xaa Gly Gly Ser Gly Gly Xaa Gly Xaa Gly Gly
163 1 5 10 15
166 <210> SEQ ID NO: 7
167 <211> LENGTH: 12
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic Peptide
175 <220> FEATURE:
176 <221> NAME/KEY: MISC_FEATURE
177 <222> LOCATION: (4)..(10)
178 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
180 <400> SEQUENCE: 7
W--> 182 Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa Gly Glu
183 1 5 10
186 <210> SEQ ID NO: 8
187 <211> LENGTH: 46
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Synthetic Peptide
195 <220> FEATURE:
196 <221> NAME/KEY: MISC_FEATURE
197 <222> LOCATION: (6)..(44)
198 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
200 <400> SEQUENCE: 8
W--> 202 Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly
203 1 5 10 15
206 Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly
207 20 25 30
210 Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
211 35 40 45
214 <210> SEQ ID NO: 9
215 <211> LENGTH: 18
216 <212> TYPE: PRT
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Synthetic Peptide
223 <220> FEATURE:
224 <221> NAME/KEY: MISC_FEATURE
225 <222> LOCATION: (6)..(11)

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:00

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

226 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 228 <400> SEQUENCE: 9  
 W--> 230 Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly  
 231 1 5 10 15  
 234 Tyr Asn  
 238 <210> SEQ ID NO: 10  
 239 <211> LENGTH: 26  
 240 <212> TYPE: PRT  
 241 <213> ORGANISM: Artificial Sequence  
 243 <220> FEATURE:  
 244 <223> OTHER INFORMATION: Synthetic Peptide  
 247 <220> FEATURE:  
 248 <221> NAME/KEY: MISC\_FEATURE  
 249 <222> LOCATION: (7)..(24)  
 250 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 252 <400> SEQUENCE: 10  
 W--> 254 Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly Xaa Gly Gly Xaa  
 255 1 5 10 15  
 258 Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly  
 259 20 25  
 262 <210> SEQ ID NO: 11  
 263 <211> LENGTH: 17  
 264 <212> TYPE: PRT  
 265 <213> ORGANISM: Artificial Sequence  
 267 <220> FEATURE:  
 268 <223> OTHER INFORMATION: Synthetic Peptide  
 271 <220> FEATURE:  
 272 <221> NAME/KEY: MISC\_FEATURE  
 273 <222> LOCATION: (4)..(15)  
 274 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 276 <400> SEQUENCE: 11  
 W--> 278 Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
 279 1 5 10 15  
 282 Gly  
 286 <210> SEQ ID NO: 12  
 287 <211> LENGTH: 29  
 288 <212> TYPE: PRT  
 289 <213> ORGANISM: Artificial Sequence  
 291 <220> FEATURE:  
 292 <223> OTHER INFORMATION: Synthetic Peptide  
 295 <220> FEATURE:  
 296 <221> NAME/KEY: MISC\_FEATURE  
 297 <222> LOCATION: (4)..(21)  
 298 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 300 <400> SEQUENCE: 12  
 W--> 302 Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
 303 1 5 10 15  
 306 Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly Gly Gly Ser  
 307 20 25

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:00

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

```

310 <210> SEQ ID NO: 13
311 <211> LENGTH: 38
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Synthetic Peptide
319 <220> FEATURE:
320 <221> NAME/KEY: MISC_FEATURE
321 <222> LOCATION: (4)..(34)
322 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
324 <400> SEQUENCE: 13
W--> 326 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly Tyr Xaa
327 1 5 10 15
330 Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly Xaa Gly Gly Gly
331 20 25 30
334 Asp Xaa Gly Gly Phe Gly
335 35
338 <210> SEQ ID NO: 14
339 <211> LENGTH: 14
340 <212> TYPE: PRT
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Synthetic Peptide
347 <220> FEATURE:
348 <221> NAME/KEY: MISC_FEATURE
349 <222> LOCATION: (4)..(12)
350 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
352 <400> SEQUENCE: 14
W--> 354 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly
355 1 5 10
358 <210> SEQ ID NO: 15
359 <211> LENGTH: 26
360 <212> TYPE: PRT
361 <213> ORGANISM: Artificial Sequence
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Synthetic Peptide
367 <220> FEATURE:
368 <221> NAME/KEY: MISC_FEATURE
369 <222> LOCATION: (4)..(22)
370 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine
372 <400> SEQUENCE: 15
W--> 374 Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly
375 1 5 10 15
378 Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly
379 20 25
382 <210> SEQ ID NO: 16
383 <211> LENGTH: 19
384 <212> TYPE: PRT
385 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/056,407BDATE: 08/22/2006  
TIME: 09:27:01Input Set : A:\11362.0011.DVUS01.ST25.txt  
Output Set: N:\CRF4\08222006\J056407B.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~2,4,6,8,10,12,14,16,18~~  
Seq#:2; Xaa Pos. ~~2,4,6,10~~  
Seq#:3; Xaa Pos. ~~7,9,11,15~~  
Seq#:4; Xaa Pos. ~~17,19,21,23,25,27,29,31,33~~  
Seq#:5; Xaa Pos. ~~5,7,9,11,13~~  
Seq#:6; Xaa Pos. ~~3,5,11,13~~  
Seq#:7; Xaa Pos. ~~4,6,8,10~~  
Seq#:8; Xaa Pos. ~~6,9,11,19,27,29,33,36,44~~  
Seq#:9; Xaa Pos. ~~6,9,11~~  
Seq#:10; Xaa Pos. ~~7,9,13,16,24~~  
Seq#:11; Xaa Pos. ~~4,10,13,15~~  
Seq#:12; Xaa Pos. ~~4,10,13,15,21~~  
Seq#:13; Xaa Pos. ~~4,5,7,12,16,18,22,26,29,34~~  
Seq#:14; Xaa Pos. ~~4,5,7,12~~  
Seq#:15; Xaa Pos. ~~4,6,10,14,17,22~~  
Seq#:32; Xaa Pos. ~~8,10,12,14,16,18,20,22,24~~

## VERIFICATION SUMMARY

DATE: 08/22/2006

PATENT APPLICATION: US/10/056,407B

TIME: 09:27:01

Input Set : A:\11362.0011.DVUS01.ST25.txt

Output Set: N:\CRF4\08222006\J056407B.raw

L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
M:341 Repeated in SeqNo=4  
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
M:341 Repeated in SeqNo=10  
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
M:341 Repeated in SeqNo=12  
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
M:341 Repeated in SeqNo=13  
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
M:341 Repeated in SeqNo=15  
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
M:341 Repeated in SeqNo=32